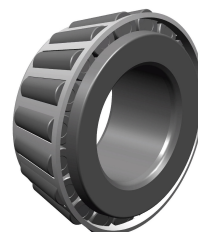


PDF technical sheet 4TJM738249

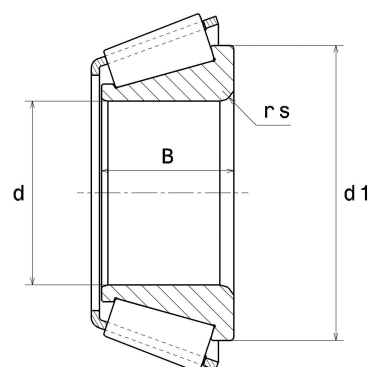


Single row tapered roller bearings

Mounted cone, sheet metal cage

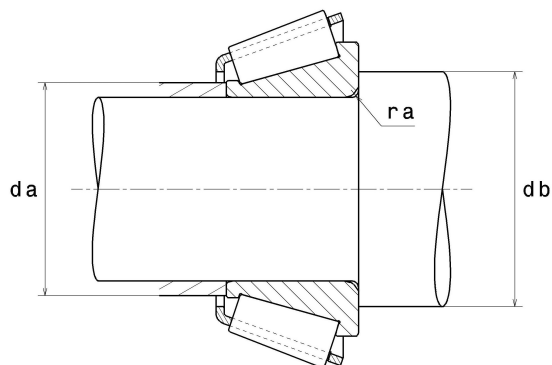
Product definition

d	7.4803 "
B	1.7323 "
d1	8.9370 "
e	0.48
Y2	1.26
Y0	0.69
Brand	NTN



Product performance

Dynamic load, C	365 kN
Rating life coefficient, A2	1.4
Static load, C0	720 kN
Fatigue limit load, Cu	68.90 kN
Nlim (oil)	1,600 RPM
Nlim (grease)	1,200 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.47 Hz
Characteristic rolling element frequency, BSF	13.48 Hz
Characteristic outer ring frequency, BPF0	15.80 Hz
Characteristic inner ring frequency, BPFI	18.20 Hz



Abutment dimensions

ra max	0.1181 "
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Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	0	0.4	Y2

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
0.5	Y0

If $P_0 < F_r$, then use $P_0 = F_r$

The values for e, Y2 and Y0 are shown in the above table